Suzette Peplinski, PE Michigan Department of Transportation 1420 Front Avenue NW Grand Rapids, MI 49504 Peplinskiß@michigan.gov

Serving the Grand Rapids Area Freeways

Control Room Coverage

Control Room Hours of Operation

The following report is limited to data collected during the hours of operation for the control room and within the ITS device coverage area.

Day	Time Period	Time of Day
Mondays – Thursdays	All	6:00 a.m. to 8:00 p.m.
Fridays	May through Labor Day	6:30 a.m. to 9:00 p.m.
Sundays	May through Labor Day	5:00 p.m. to 8:00 p.m.
Fridays	Labor Day through April	6:30 a.m. to 8:00 p.m.
Sundays	Labor Day through April	None
Special Events	All	As needed
Holidays	New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, and Christmas Day.	None

ITS Device Locations and Coverage Area



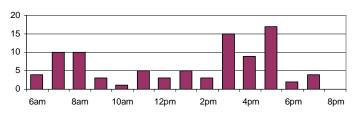


Suzette Peplinski, PE
Michigan Department of Transportation
1420 Front Avenue NW
Grand Rapids, MI 49504
PeplinskiS@michigan.gov

Serving the Grand Rapids Area Freeways

Control Room Support Activity

Month Total of Unplanned Incidents per Weekday Hour

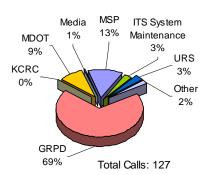




Calls by Type

_	In	Out	Total
Agency			
City of Grand Rapids	0	0	0
City of Wyoming	0	1	1
Grand Rapids Police Department	10	78	88
Kent County Road Commission	0	0	0
MDOT, Construction	2	0	2
MDOT, Traffic/ITS	3	0	3
MDOT, Maintenance	3	3	6
MDOT, Other	0	0	0
Media	1	0	1
Michigan State Police	3	13	16
Sheriff, Kent Co.	1	0	1
URS Corporation	4	0	4
ITS System Maintenance	0	4	4
Other	1	0	1
Month Total	28	99	127

Calls by Type



Monthly High Impact Unplanned Incident Activity

Incident	Jan 2007	Dec 2006	Fiscal YTD Average
Lane Closures	3	7	9
Ramp Closures	1	-	2
Freew ay Closures	1	-	1

Total Monthly Unplanned Incidents by Roadway

Frankay	Jan	2007	Dec	2006	Fiscal YTI	O Average
Freeway	Total	per mi.	Total	per mi.	Total	per mi.
I-96 (4.5 mi.)*	5	1.1	4	0.9	5	1.0
I-196 (8.5 mi.)*	31	3.6	14	1.6	28	3.2
US-131 (11 mi.)*	55	5.0	32	2.9	62	5.6
Monthly Total	91	3.8	50	2.1	94	3.9

^{*}Mileages reflect the portion of the roadway within the coverage area.

Traffic Management Center News

On January 2nd and 3rd, in response to the events surrounding the funeral for Gerald R. Ford, a second operator was on duty in the control room. The

funeral served as a valuable exercise in special events communication/coordination with law enforcement, as the WM TMC worked together with GRPD.



Operator Tamani Jenison successfully completed training during the week of January 15th, and is now available as an alternate operator.

Page 2

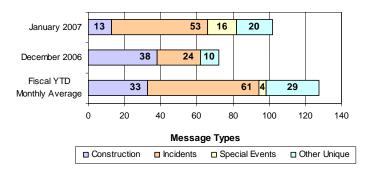
Suzethe Peplinski, PE
Michigan Department of Transportation
1420 Front Avenue NW
Grand Rapids, MI 49504
PeplinskiS@michigan.gov

Serving the Grand Rapids Area Freeways

Traveler Information Activity

• The MDOT ITS Control Room provides traffic information to freeway users via 10 dynamic message signs (DMS) positioned in key locations along the freeway system in the greater Grand Rapids area.

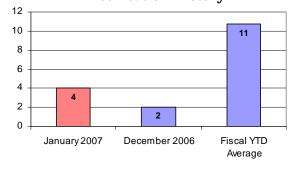
Unique DMS Messages by Type



Top Three Utilized DMS

- 1. Northbound US-131 at 28th Street
- 2. Westbound I-196 at Plymouth Avenue
- 3. Northbound US-131 at 36th Street

Monthly Incident Notification History



Monthly Incident Notification Communication Accuracy

	Jan 2007	Dec 2006	Fiscal YTD Average
Format Correct	100.0%	100.0%	86.0%
Content Correct	100.0%	100.0%	93.0%

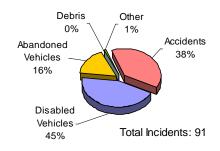


Suzette Peplinski, PE Michigan Department of Transportation 1420 Front Avenue NW Grand Rapids, MI 49504 PeplinskiS@michigan.gov

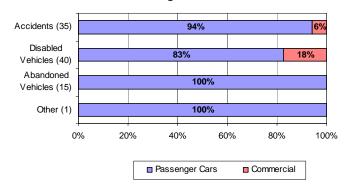
Serving the Grand Rapids Area Freeways

Incident Management Information

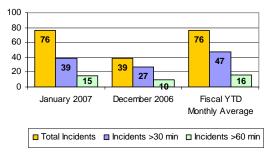
Incidents Managed by Type



Vehicle Composition of Incidents

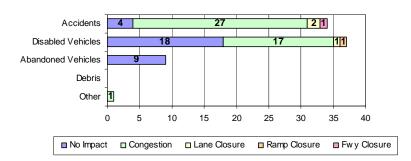


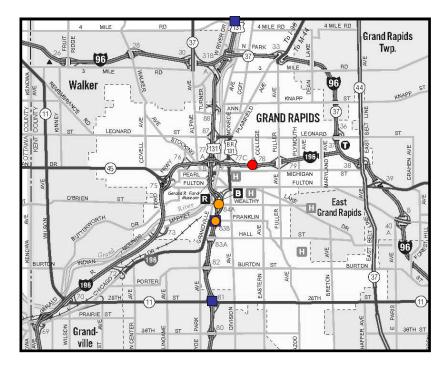
Incident Duration History*



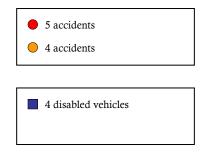
^{*}Incident Duration History does not include abandoned vehicles.

Traffic Impacts by Incident Type





Incident Hot Spots



Page 4
(See Data Key Page #10 for explanations)

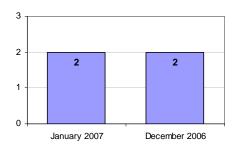


Suzette Peplinski, PE
Michigan Department of Transportation
1420 Front Avenue NW
Grand Rapids, MI 49504
Peplinski@michigan.gov

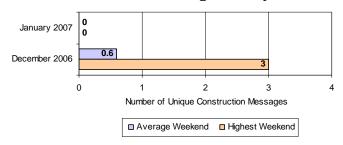
Serving the Grand Rapids Area Freeways

Construction Management Information

Incidents Occurring in Construction Zones



Weekend* Construction DMS Message Activity



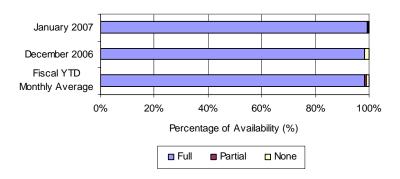
*Friday, Saturday and Sunday.

Michigan Department of Transportation 1420 Front Avenue NW Grand Rapids, MI 49504 PeplinskiS@michigan.gov

Serving the Grand Rapids Area Freeways

ITS Field Infrastructure Reliability

Overall Camera System Availability



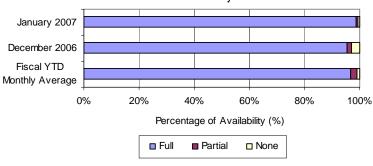
Individual CCTV Camera

Availability

	0			
	Camera	Full	Partial	None
1	US-131 @ 28th St	100%	-	-
2	US-131 @ Franklin St	100%	-	-
3	US-131 @ Market Ave	100%	-	-
4	US-131 @ Pearl St	100%	-	-
5	US-131 @ I-196	100%	-	-
6	US-131 @ Leonard St	100%	-	-
7	US-131 @ Ann St	97%	3%	-
8	US-131 @ I-96	100%	-	-
9	US-131 @ Hall St	100%	-	-
10	US-131 @ West River	92%	-	8%
11	I-196 @ Chicago Dr	100%	-	-
12	I-196 @ Lake Michigan Dr	100%	-	-
13	I-196 @ Lane Ave	100%	-	-
14	I-196 @ College Ave	100%	-	-
15	I-196 @ Fuller Ave	100%	-	-
16	I-96 @ I-196	100%	-	-
17	I-96 @ Fulton/M-21	100%	-	-

Overall DMS System





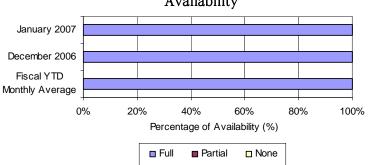
Individual Dynamic Message Sign

Availability

	DMS	Full	Partial	None
1	WB I-96 @ Fulton/M-21	100%	-	-
2	WB I-196 @ Chicago Dr	100%	-	-
3	EB I-196 @ Plymouth	100%	-	-
4	SB US-131 @ West River	89%	5%	5%
5	SB US-131 @ Ann	100%	-	-
6	NB US-131 @ Leonard	100%	-	-
7	SB US-131 @ Pearl	100%	-	-
8	SB US-131 @ Hall	97%	3%	-
9	NB US-131 @ 36th St	100%	-	-
10	NB US-131 @ 28th St	100%	-	-

Overall VSS System

Availability



Individual Variable Speed Sign

Availability

VSS	Full	Partial	None
1 NB US-131 @ Market	100%	-	-
2 US-131 @ Franklin St	100%	-	-
3 US-131 @ Market Ave	100%	-	-
4 US-131 @ Pearl St	100%	-	-

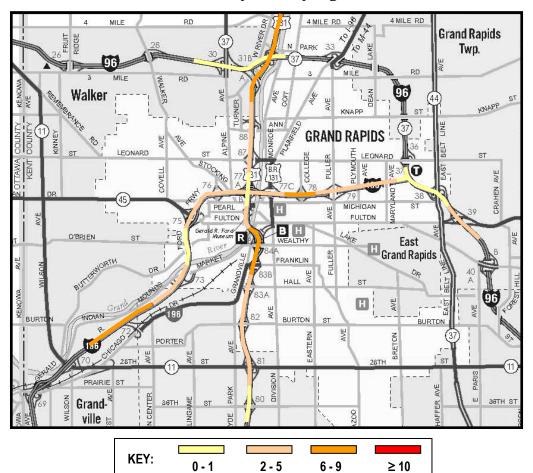




Michigan Department of Transportation 1420 Front Avenue NW Grand Rapids, MI 49504 PeplinskiS@michigan.gov

Safety Summary

January 2007 **Incidents by Freeway Segment**





Michigan Department of Transportation 1420 Front Avenue NW Grand Rapids, MI 49504 PeplinskiS@michigan.gov

Table	Description	Purpose	Data Source
Month Total of Unplanned Incidents per Weekday Hour	Displays the total unplanned incidents for 1-hour increments over a 24-hour period.	Provides a snapshot view of variability of incidents by time of day.	Control Room Activity Log Manually entered information by the operator.
Monthly High Impact Unplanned Incident Activity	Displays the number of major unplanned incidents for the current month, previous month and fiscal year-to-date monthly average.	Provides a snapshot view of the major incidents that affect the roadway and freeway interchanges along with historical data.	Control Room Activity Log Manually entered information by the operator.
Total Monthly Unplanned Incidents by Roadway	Displays the total unplanned incidents by freeway and the density of incidents based on freeway coverage.	Provides a snapshot view of the number of incidents per freeway per month.	Control Room Activity Log Manually entered information by the operator.
Monthly Call History	Displays the number of telephone calls (incoming and outgoing) for the Control Room Operators for the current month, previous month and fiscal year-to-date monthly average.	Provides a snapshot view of the control room workload in a historical context.	Control Room Activity Log Manually entered information by the operator.
Calls by Type (Table)	Displays the number and types of call activity for the Control Room operators, separating incoming and outgoing calls.	Provides a snapshot view of the Control Room call distribution and any apparent trends with the call volume or type.	Control Room Activity Log Manually entered information by the operator.
Calls by Type (Pie Chart)	Displays the percentage distribution of call activity for the Control Room operators.	Provides a snapshot view of the Control Room call distribution and any apparent trends with the call volume or type.	Control Room Activity Log Manually entered information by the operator.



Michigan Department of Transportation 1420 Front Avenue NW Grand Rapids, MI 49504 PeplinskiS@michigan.gov

Table	Description	Purpose	Data Source
Unique DMS Messages by Type	Displays the total number of unique DMS messages by type that occurred during the month.	Provides a snapshot view of the level of effort and need related to DMS messages.	Control Room Activity Log Manually entered information by the operator.
Top Three Utilized DMS	Displays the top 3 DMS in terms of the number of unique messages displayed for the month.	Provides a snapshot view of the "most active" DMS for traveler information, which may indicate areas where additional DMS or other forms of traveler information may be necessary.	Control Room Activity Log Manually entered information by the operator.
Monthly Incident Notification History	Displays the number of email incident notifications sent out by Control Room Operators for the current month, previous month and fiscal year-to-date monthly average.	Provides a snapshot view of the control room workload in a historical context.	QA/QC Log Manually entered information by operations supervisor.
Monthly Incident Notification Communication Accuracy	Displays the accuracy of email incident notification messages sent out to stakeholders. Accuracy measures include format and content.	Provides a quantitative method of quality control on operator interactions with stakeholders.	OA/OC Log Manually entered information by operations supervisor.



Michigan Department of Transportation 1420 Front Avenue NW Grand Rapids, MI 49504 PeplinskiS@michigan.gov

Table	Description	Purpose	Data Source
Incidents Managed by Type	Displays the distribution of incident types.	Provides a snapshot view of the composition of incidents.	Control Room Activity Log Manually entered information by the operator.
Vehicle Composition of Incidents	Displays the number of incidents that involved commercial vehicles compared to passenger cars for each incident type.	Provides a snapshot view of the incidents involving commercial vehicles.	Control Room Activity Log Manually entered information by the operator.
Incident Duration History	Displays the total number of incidents compared with the number of incidents with durations exceeding 30 minutes and 60 minutes. (current month, previous month and fiscal year-to-date monthly average)	Provides a snapshot view of the duration of incidents managed by the control room.	Control Room Activity Log Manually entered information by the operator.
Traffic Impacts by Incident Type	Displays traffic impact distributions by incident type.	Provides a snapshot view of the typical traffic impacts for each incident type.	Control Room Activity Log Manually entered information by the operator.
Incident Hot Spots	Displays the most frequent locations for accidents and disabled vehicles.	Provides a snapshot view of where operators should concentrate their attention.	Control Room Activity Log Manually entered information by the operator.



January 2007

West Michigan TMC Serving the Grand Rapids Area Freeways

Michigan Department of Transportation 1420 Front Avenue NW Grand Rapids, MI 49504 PeplinskiS@michigan.gov

Table	Description	Purpose	Data Source
Incidents Occurring in Construction Zones	Displays the number of unplanned incidents occurring in construction zones for the current and previous months.	Provides a snapshot view of the number of incidents occurring in construction zones.	Control Room Activity Log Manually entered information by the operator.
Weekend Construction DMS Message Activity	Displays the average and maximum number of unique construction messages posted during a full (Friday-Sunday) weekend in the current and previous months.	Provide an snapshot view of the quantity of messaging occurring during the weekend.	Control Room Activity Log Manually entered information by the operator.



Michigan Department of Transportation 1420 Front Avenue NW Grand Rapids, MI 49504 PeplinskiS@michigan.gov

Table	Description	Purpose	Data Source
Overall Camera System Availability	Displays the percentage of CCTV camera availability for the current month, previous month and fiscal year-to-date monthly average.	Provides a snapshot view of system availability in relation to historical data.	Daily Shift Report Manually entered information by the operator.
Individual CCTV Camera Availability	Displays the percentage of time each individual CCTV camera is functioning at full, partial and zero capacity.	Provides a detailed view of ITS system availability.	Daily Shift Report Manually entered information by the operator.
Overall DMS System Availability	Displays the percentage of Dynamic Message Sign availability for the current month, previous month and fiscal year-to- date monthly average.	Provides a snapshot view of system availability in relation to historical data.	Daily Shift Report Manually entered information by the operator.
Individual Dynamic Message Sign Availability	Displays the percentage of time each individual Dynamic Message Sign is functioning at full, partial and zero capacity.	Provides a detailed view of ITS system availability.	Daily Shift Report Manually entered information by the operator.
Overall VSS System Availability	Displays the percentage of Variable Speed Sign availability for the current month, previous month and fiscal year-to-date monthly average.	Provides a snapshot view of system availability in relation to historical data.	Daily Shift Report Manually entered information by the operator.
Individual Variable Speed Sign Availability	Displays the percentage of time each individual Variable Speed Sign is functioning at full, partial and zero capacity.	Provides a detailed view of ITS system availability.	Daily Shift Report Manually entered information by the operator.
Incidents by Freeway Segment	Displays incident density per segment of roadway within the ITS device coverage. Red indicates a freeway with the highest incident density. Dark orange, light orange and light yellow represent decreasing levels of density, respectively.	Provides a graphic representation of incident density to assist in choosing locations for future ITS devices.	Daily Shift Report Manually entered information by the operator.

